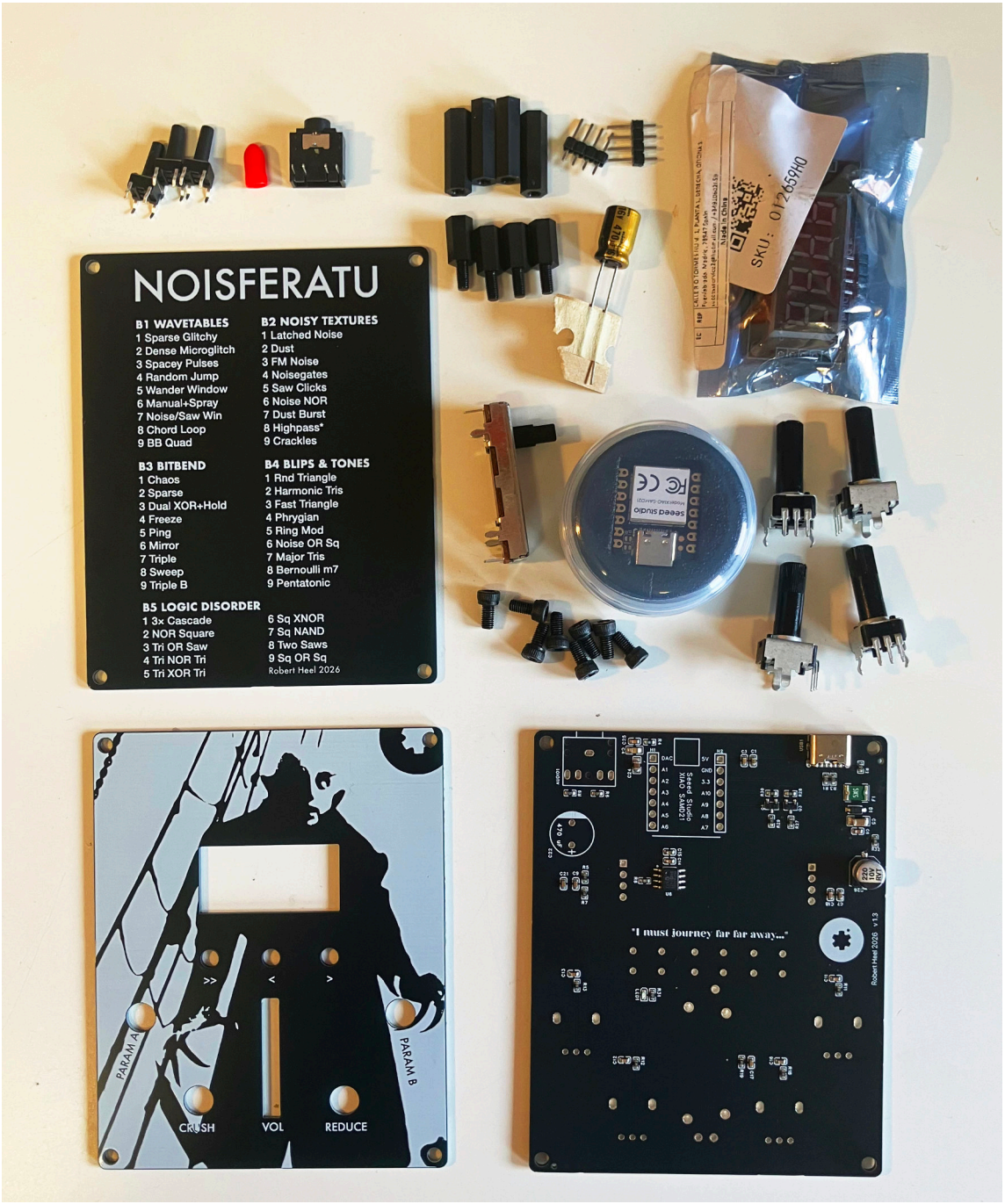
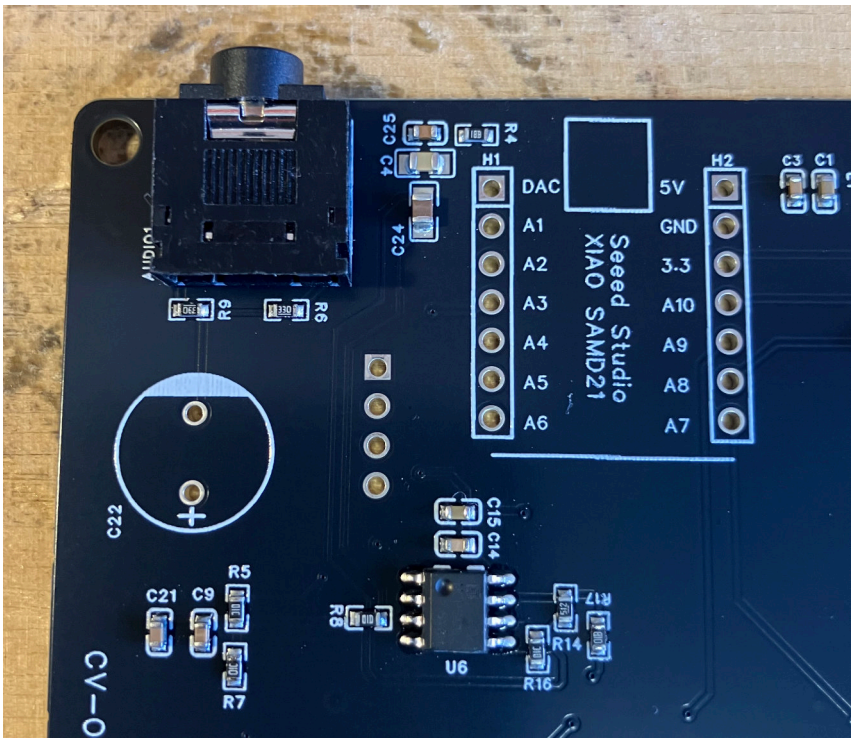
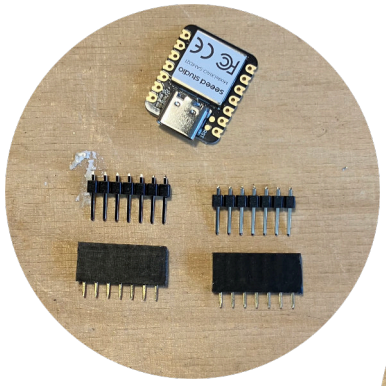
NOISFERATU

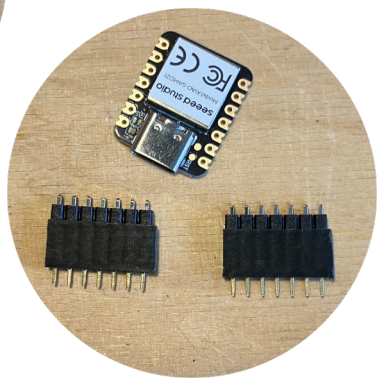
Buildguide



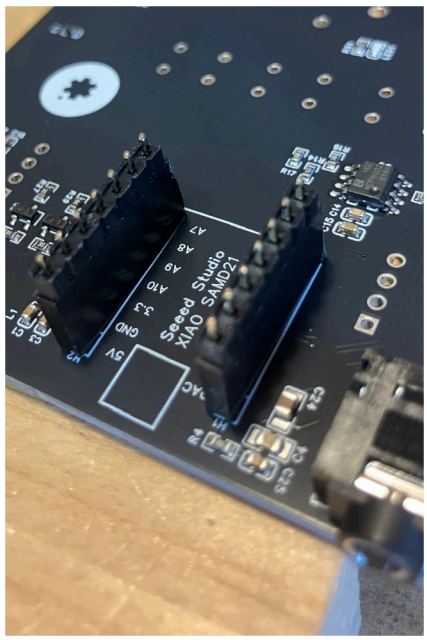


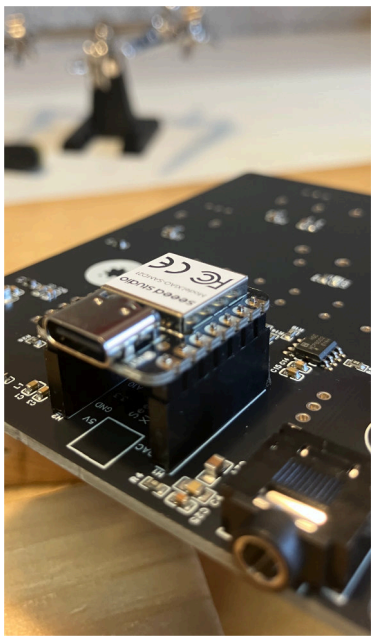
Solder the Stereo jack on the pcb.



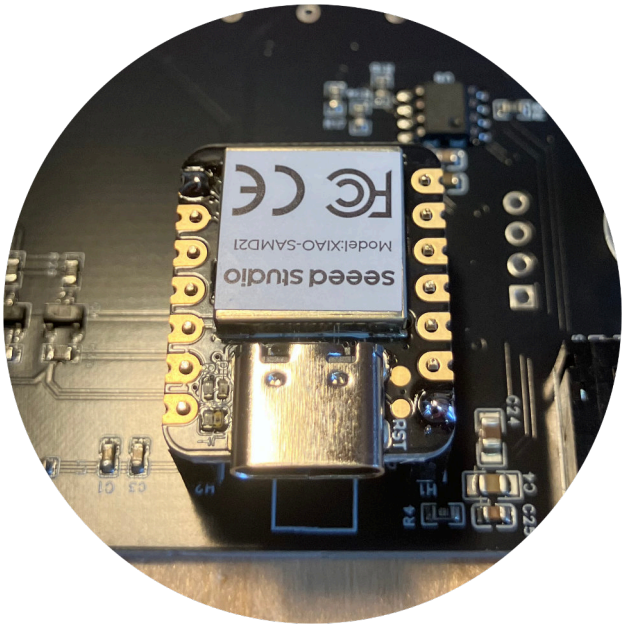


Push the 7 pin male headers into the female headers. The male headers are in the samd21 box underneath the foam.

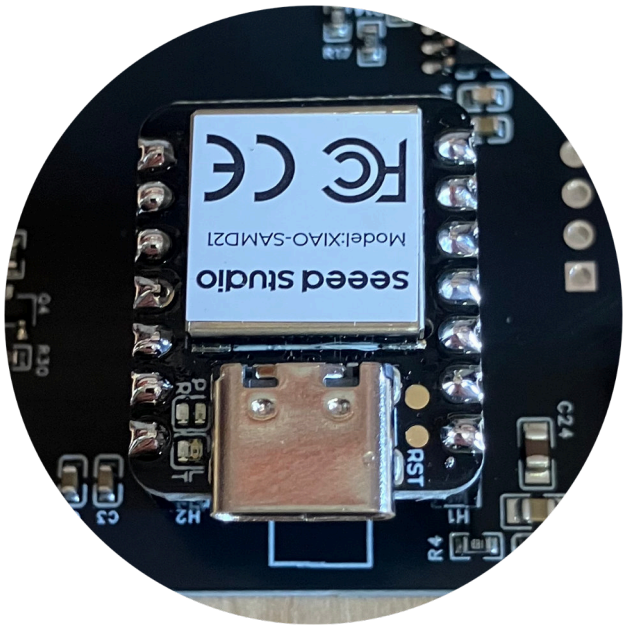


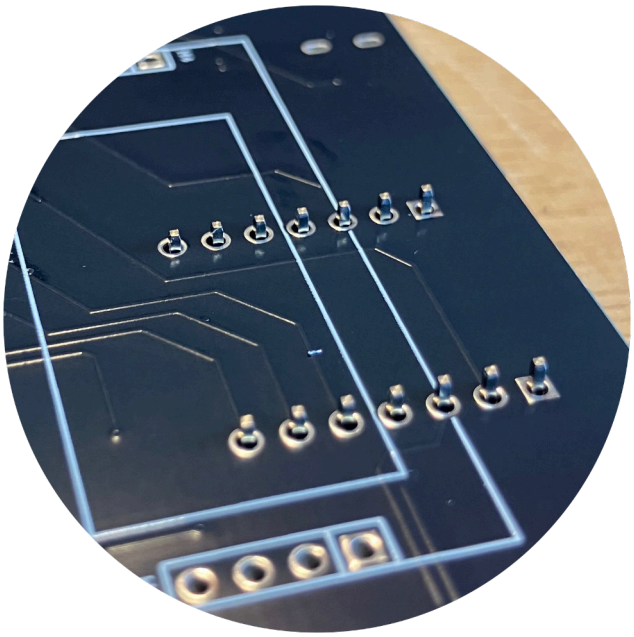


Place the female headers onto the pcb with the male headers facing upwards and place the samd21 on top, with the usb socket facing the edge of pcb.

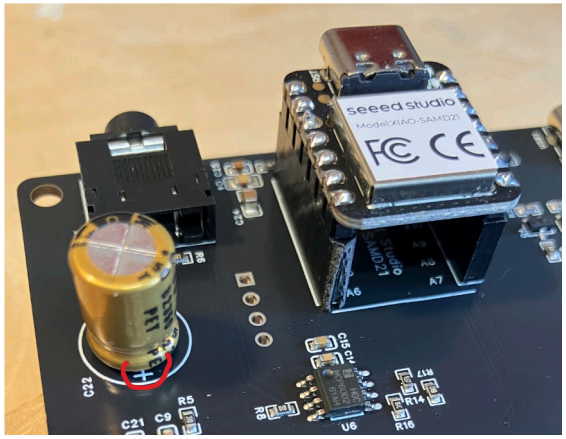


Solder the two outer MCU pins, check alignement, then solder all remaining pins.

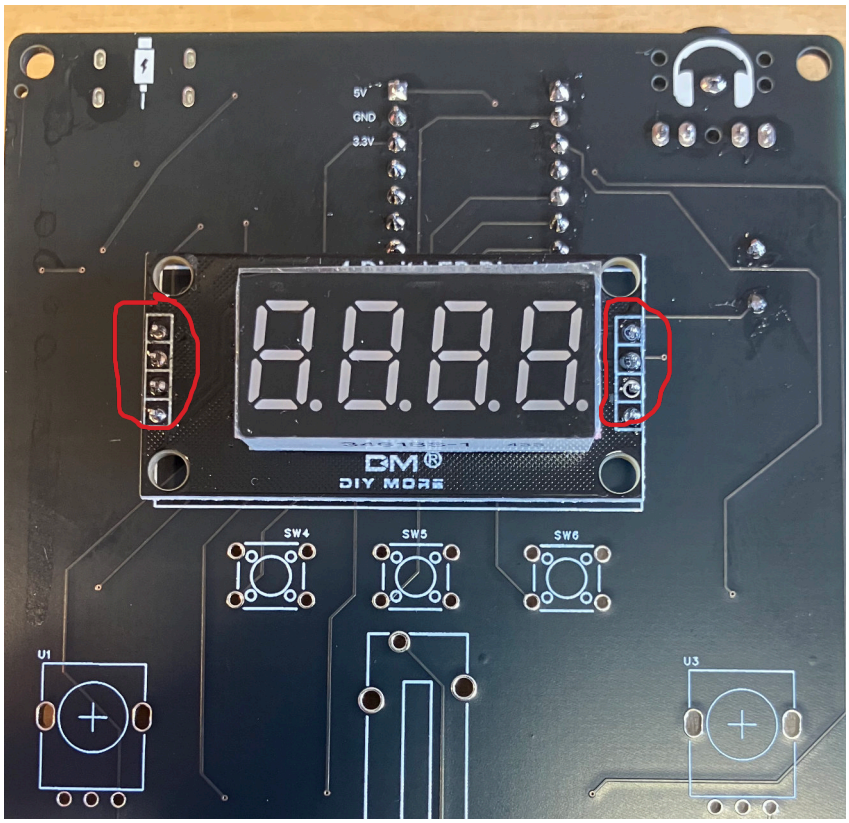


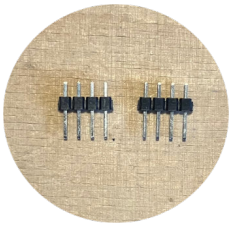


Flip over and solder the female headers for the XIAO Samd21 to the pcb.



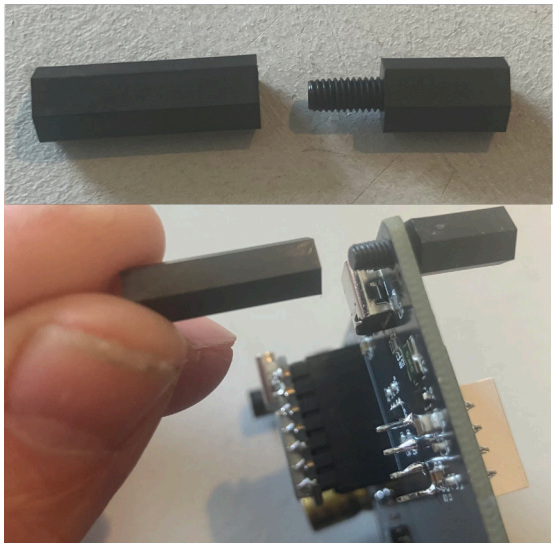
Solder the electrolytic capacitor. Mind the polarity. Long leg is positive, indicated by a + sign on PCB.



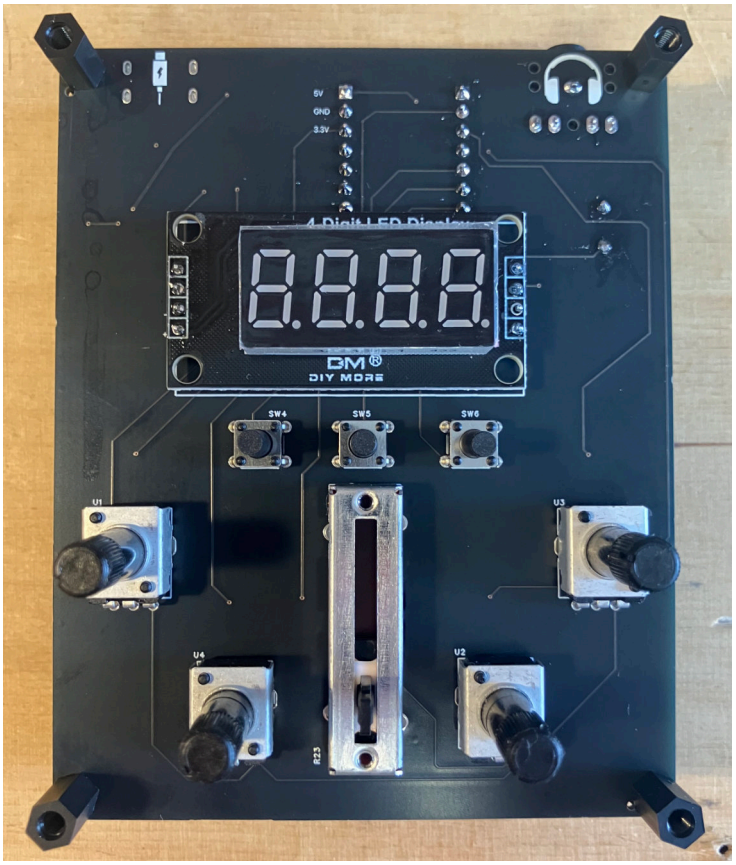


Place the 4 pin male headers on the PCB and place the display on it. Long legs of the headers PCB side, short legs display side.

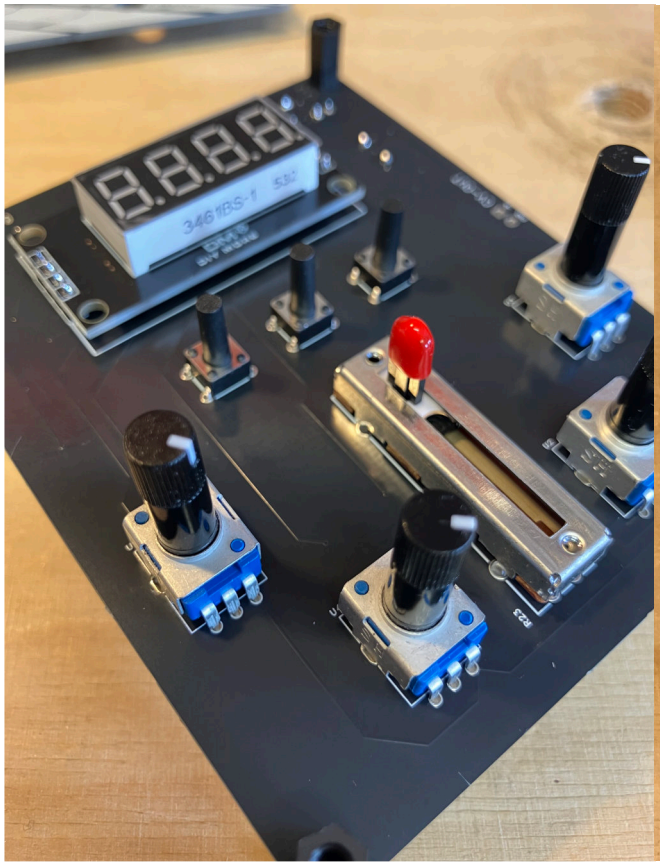
Pay attention to the orientation of the display. You do not need the right angled male header that comes prepackaged with the display. Solder the top male headers to the display. Don`t solder the display pins on the back of PCB yet.

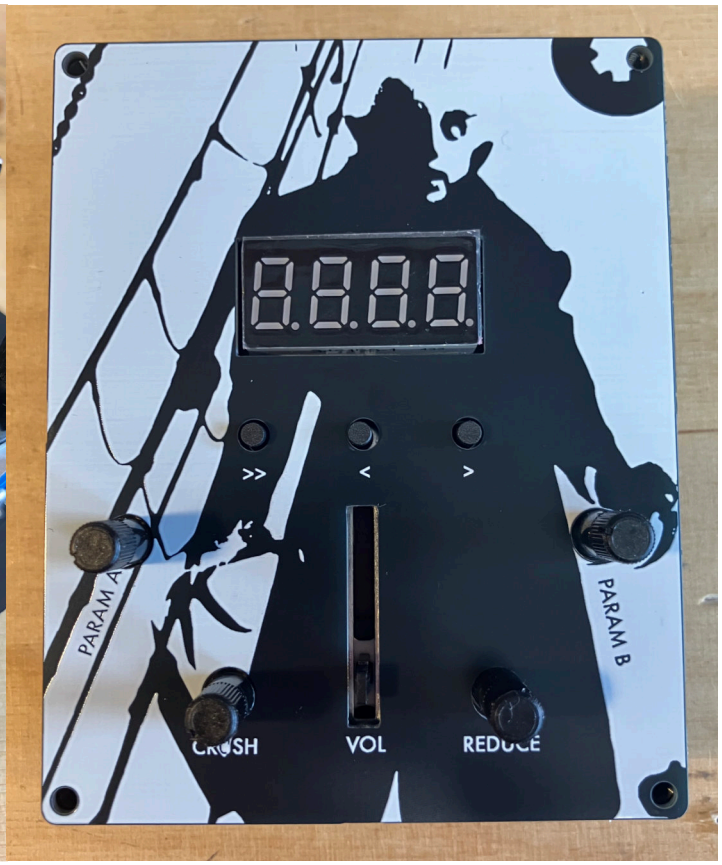


Stick the male spacers through the PCB and screw on the female spacers.



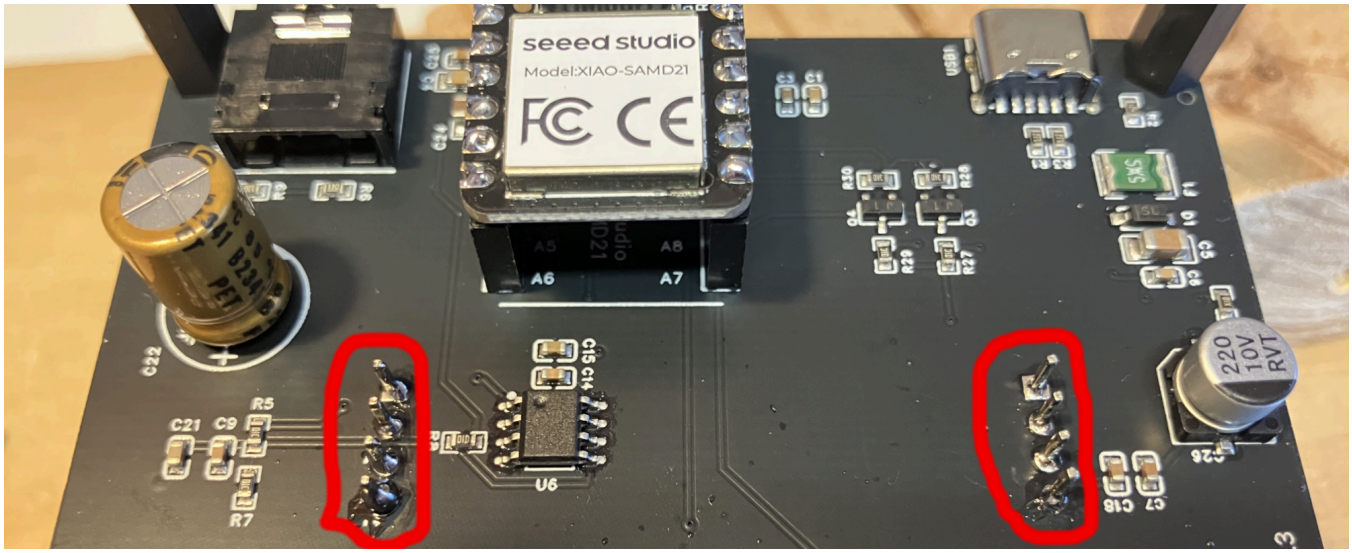
Place the 4 pots, 1 slider, display and 3 push-buttons. Also attach the slider cap. Then attach the frontpanel and loosely secure with screws





It can be helpful to secure the display with a piece of tape before flipping and soldering the display pins on bottom.

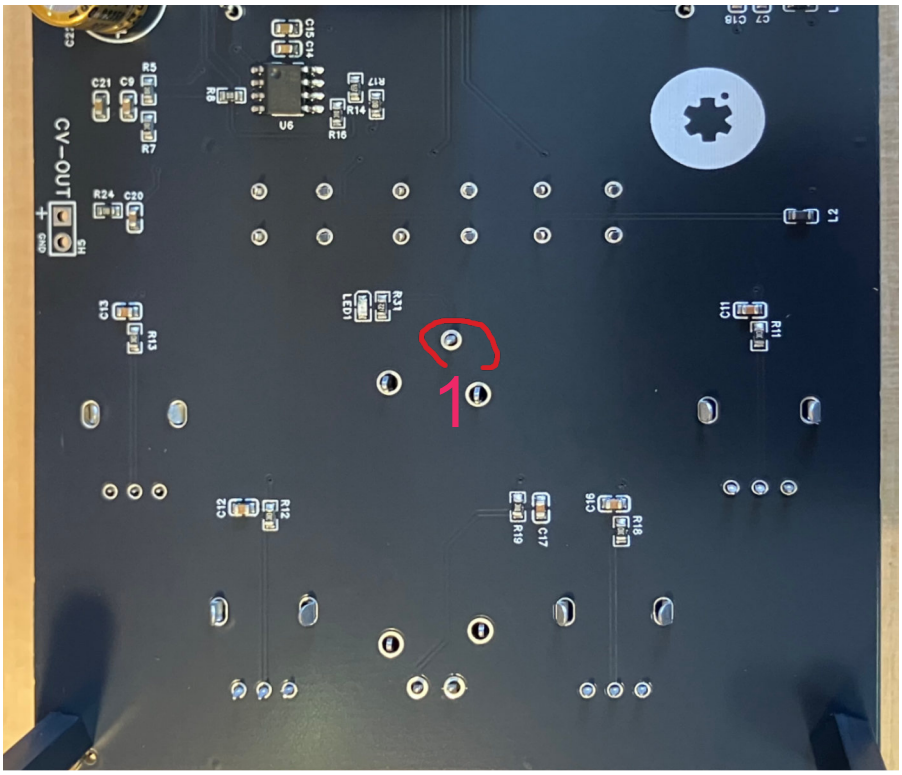
Make sure to heat the pads and the pins to avoid cold solder joints on the display pins.



Then solder the 4 pots, 1 slider and 3 pushbuttons.
I usually start with the slider.

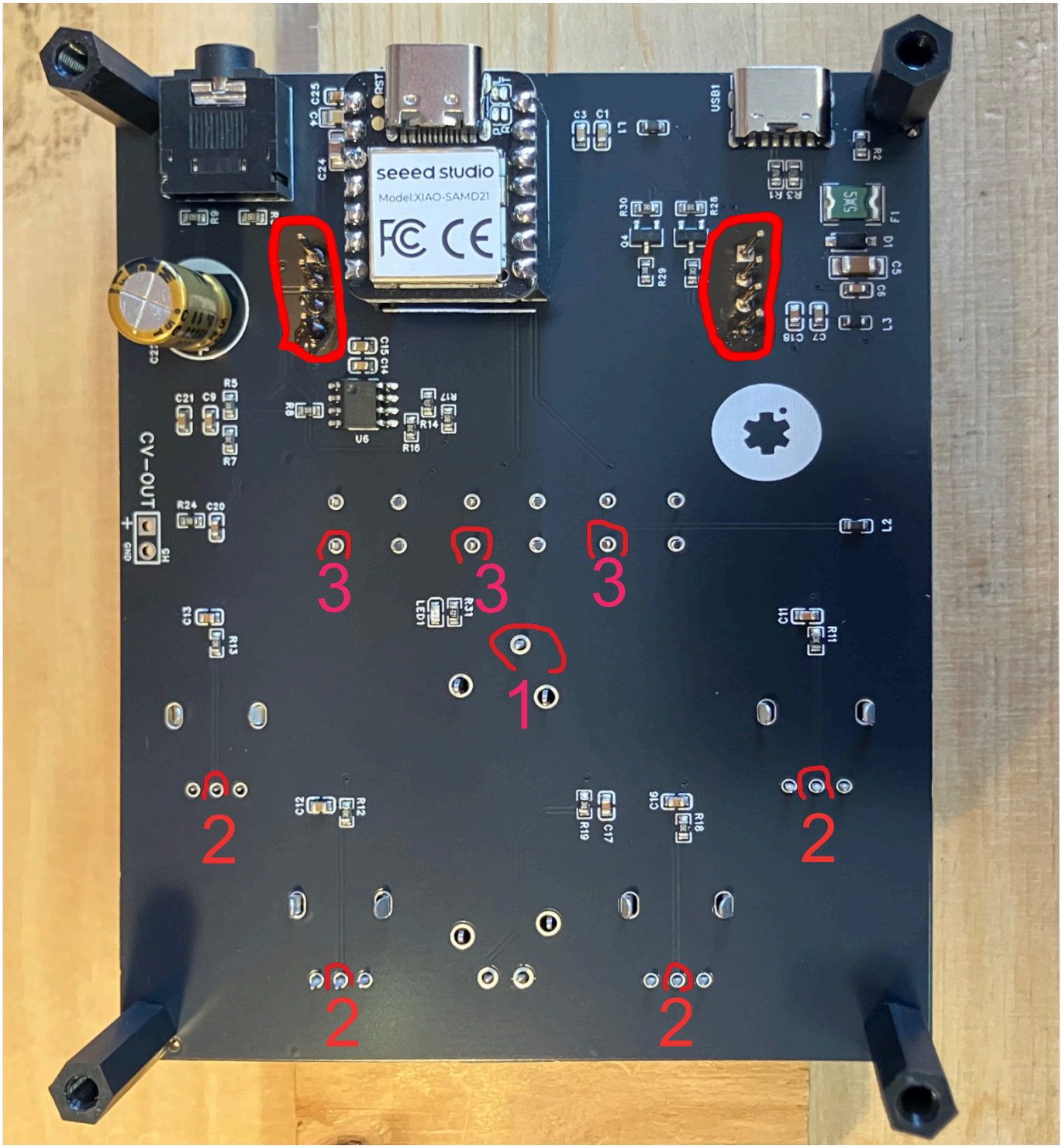
It is easiest to only solder pin 1 of the slider, then flip and make sure the slider sits flush and in the middle of the cut out on the front panel.

Don`t bend the wiper if the slider doesn't sit flush and in the middle -> reheat the one solder joint and gently position the slider in the correct position.



For pots i start with the middle pin 2, flip, check and either solder the rest or heat up and readjust.

Then solder the buttons. For buttons i usually also start with one pin 3, check alignement and then solder the rest of the pins.
Finish by soldering all remaining solder joints.



Attach the back panel and secure with screws.

Congratulations, you finished your NOISFERATU.

If you bought a DIY kit the samd is preflashed.

May the crackles be with you.

NOISFERATU

Buildguide

Find the manual here

and more info on

scaepe.ing

And detailed information

in the GitHub repo.